

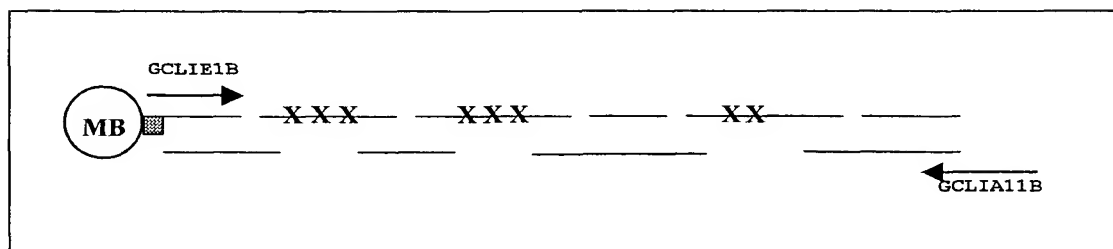
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Fig. 1

GCLIE1B: Biotin-
 CGCGCGCGTCTCACAAAGATACATGCCATGACTCGCGGCCAGCC
 GCLIE2P: P-
 CCCCATGGCCGGCTGGGCCGCGAGTCATGGCATGTATCTTTGTGAGACGCGCGCG
 GCLIE3P: P- GGCCATGGGGNNKATCNNKTTTNNKGAGGACCGGGG
 GCLIE4P: P- GTGGCCCTGGAAGCCCCGGTCCTC
 GCLIE5P: P-
 CTTCCAGGGCCACNNKTACNNKTGCNNKAGCGACTGCCCCAACC
 GCLIE6P: P- TGCAGCCCTATTTCAGCCGC
 GCLIE7P: P-
 GATGGAGTTACAGCGGCTGAAATAGGGCTGCAGGTTGGGGCAGTCGC
 GCLIE8P: p-
 TGTAACCTCCATCNNKGTGNNKAGCGGCTGCTGGATGCTGTATGAG
 GCLIE9P: P- CGCCCCAACTACCAGGGTCACCAGTACTTCCTGCGGC
 GCLIE10:
 GCCGCAGGAAGTACTGGTGACCCTGGTAGTTGGGGCGCTCATACAGCATC
 GCLIA11B: Biotin- CCATCAGCCCCATCAGCGAACTTTGCCGCAGGAAGTACTGG

P: Phosphate, N: A/C/G/T, K: T/G

Fig. 2



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Fig. 3

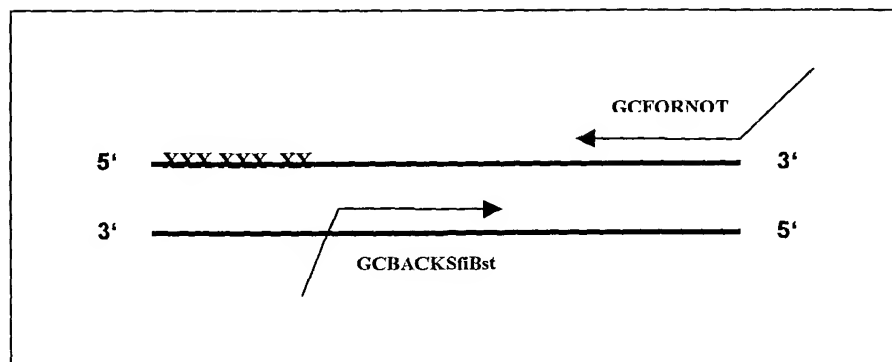
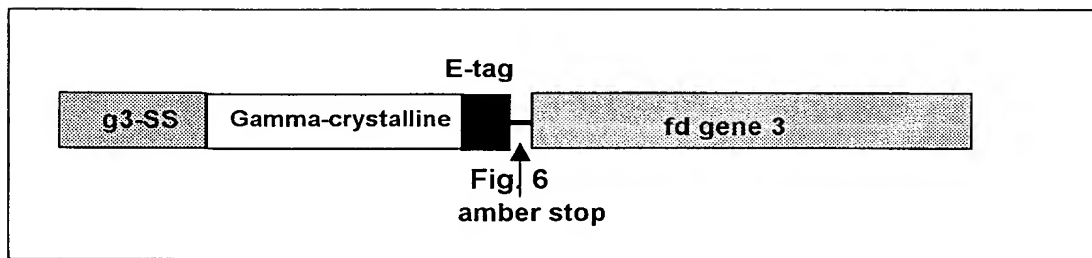


Fig. 4

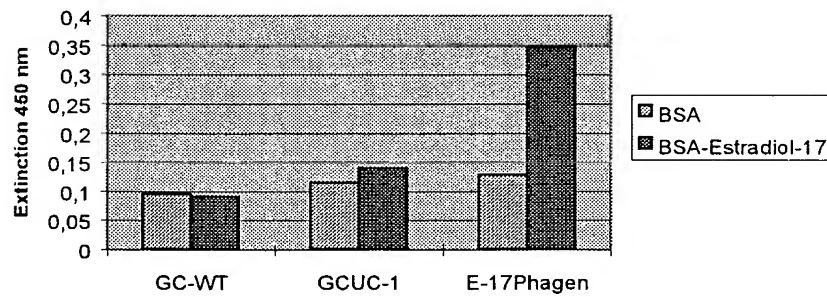
GCFORNOT: 5' GAGTCATTCTGCGGCCGCATAAAAATCCATCACCCGTCTTAAAGAACC
3'

GCBACKSfiBst: 5'
GCGGCCAGCCGGCCGCTGCTGGATGCTGTATGAGCGCCCCAACTACCAGGGTCACC
AG 3'

Fig. 5



Polyclonal ELISA after 3rd panning



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Fig. 7

Mu 12A:

GGCCCAGCCGGCCATGGGGAGGATCAAGTTTAAAGAGGACCGGGGCTTCCAGGGCCA
CTATTACAGTTGCAATAGCGACTGCCCCAACCTGCAGCCCTATTTTCAGCCGCTGTAAC
CCATCAGGGTGCTGAGCGGCTGCTGGATGCTGTATGAGCGCCCCAACTACCAGGGTCA
CC

WT:

GGCCCAGCCGGCCATGGGGAAGATCACTTTTTACGAGGACCGGGGCTTCCAGGGCCA
CTGCTACGAGTGACGAGCGACTGCCCCAACCTGCAGCCCTATTTTCAGCCGCTGTAAC
TCCATCCGCGTGACAGCGGCTGCTGGATGCTGTATGAGCGCCCCAACTACCAGGGC
CACC

Fig. 8

Mu 12A:

AAQPAMGRIKFKEDRGFQGHYYSCNSDCPNLQPYFSRCNSIRVLSGCWMLYERP NYQGH
QYFLRRGDYPDYQQWMGFNDSIRSCRLIPQHTGTFRMRIYERDDFRGQMSEITDDCPSLQ
DRFHLTEVHSLNVLEGSWWLYEMPSYRGRQYLLRPGEYRRYLDWGAMNAKVGLRRVMD
FYAAAGAPVPYPDPLEPRAA

WT:

AAQPAMGKITFYEDRGFQGH CYECSSDCPNLQPYFSRCNSIRVDSGCWMLYERP NYQGH
QYFLRRGDYPDYQQWMGFNDSIRSCRLIPQHTGTFRMRIYERDDFRGQMSEITDDCPSLQ
DRFHLTEVHSLNVLEGSWWLYEMPSYRGRQYLLRPGEYRRYLDWGAMNAKVGLRRVMD
FYAAAGAPVPYPDPLEPRAA

Fig. 9

GC 20bbackWT: 5' GGGAATTCCATATGGGGAAGATCACTTTTTACG 3'
 GC 20bback12A: 5' GGGAATTCCATATGGGGAGGATCAAGTTTAAAG 3'
 GC for 20b: 5' CGCGGATCCGAATAAAAATCCATCACCCG 3'

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Fig. 10

Mu 12A-HIS:

MGRIKFKEDRGFQGHYYSCNSDCPNLQPYFSRCNSIRVLSGCWMLYERPNEYQGHQYFLR
 RGDYPDYQQWMGFND^SIRSCRLIPQHTGTFRMRIYERDDFRGQMSEITDDCPSLQDRFHL
 TEVHSLNVLEGSWVLYEMP^SYRGRQYLLRPGEYRRYLDWGAMNAKVGS^LLRRVMDFYSDP
NSSSVDKLAAALEHHHHHH

WT-HIS:

MGKITFYEDRGFQGH^CYECSSDCPNLQPYFSRCNSIRVD^SSGCWMLYERPNEYQGHQYFLR
 RGDYPDYQQWMGFND^SIRSCRLIPQHTGTFRMRIYERDDFRGQMSEITDDCPSLQDRFHL
 TEVHSLNVLEGSWVLYEMP^SYRGRQYLLRPGEYRRYLDWGAMNAKVGS^LLRRVMDFYSDP
NSSSVDKLAAALEHHHHHH

Fig. 11

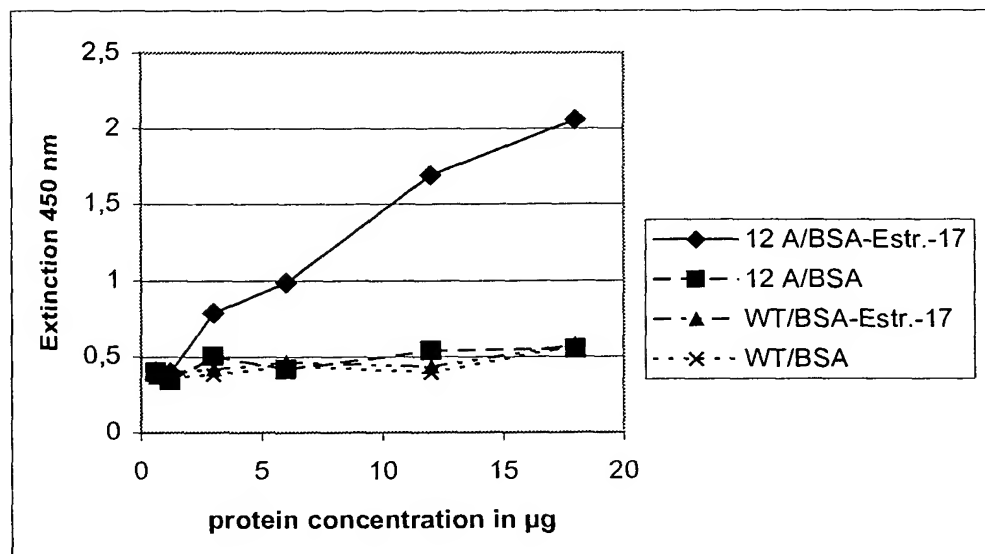
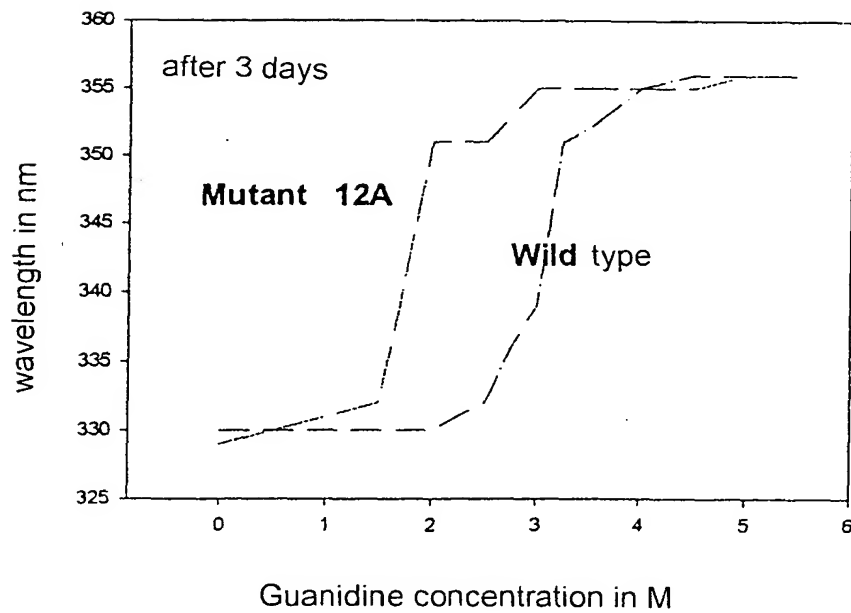
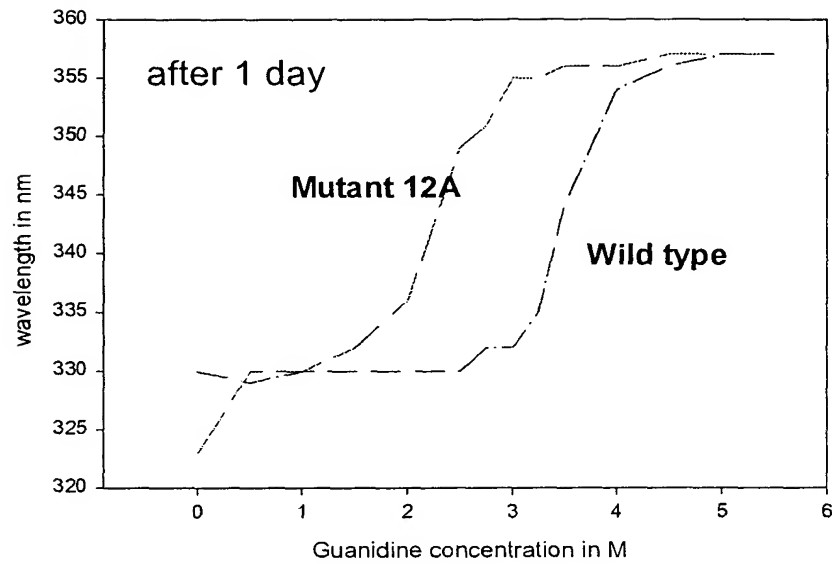
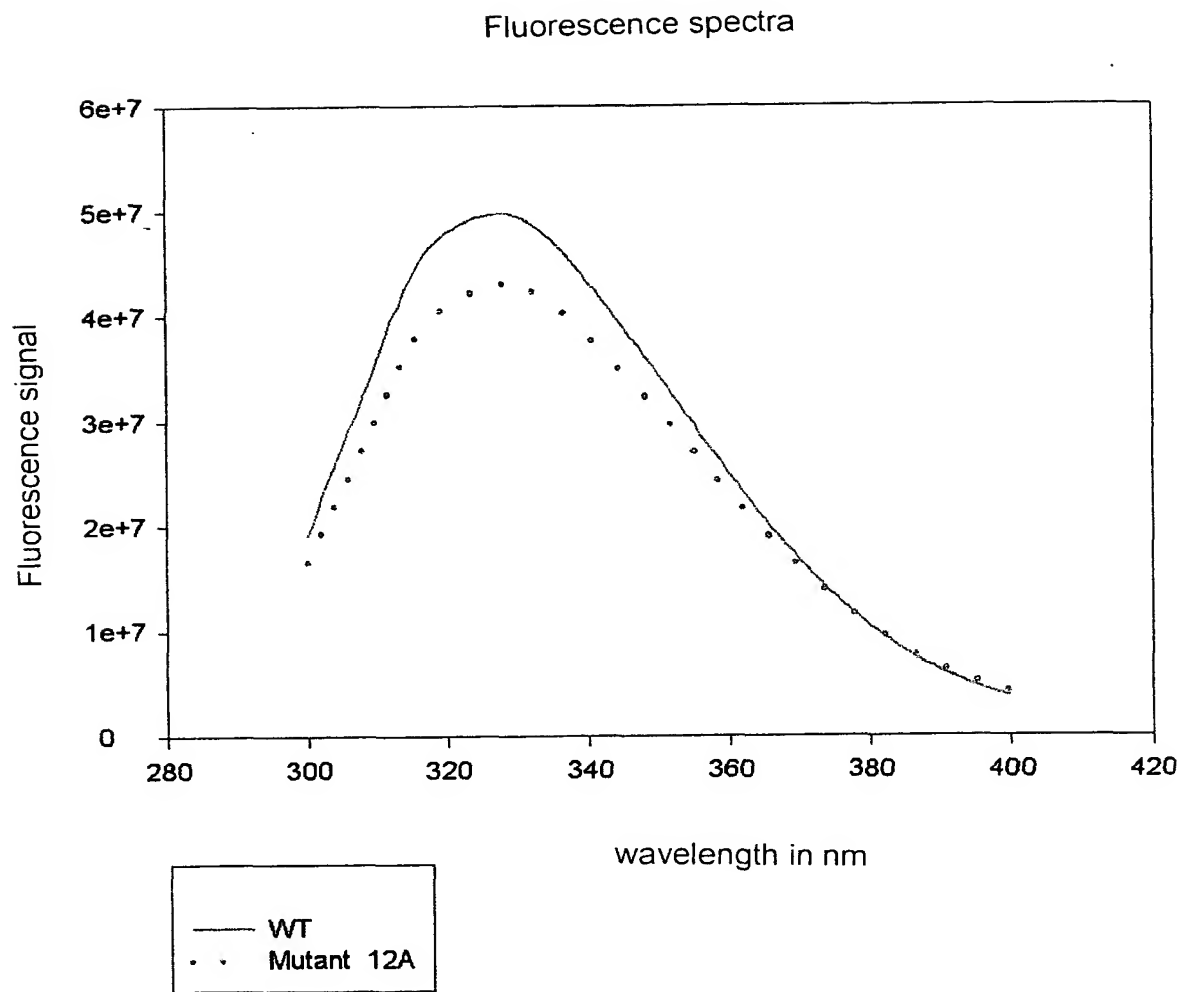


Fig. 12



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Fig. 13A



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Fig. 13B

